

PRIMARY PRODUCTION STUDY OF THE QUODDY REGION

***PASSAMAQUODDY
TRIBE AT
PLEASANT POINT
(SIPAYIK)
PERRY, MAINE***

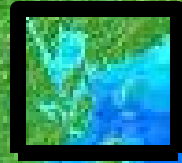


A person in a dark wetsuit is surfing on a wave, viewed from behind. The water is a deep blue-grey, and the sky is a hazy, light greenish-grey. The surfer is positioned on the right side of the frame, riding the crest of a wave that is breaking to the left.

PROJECT GOALS

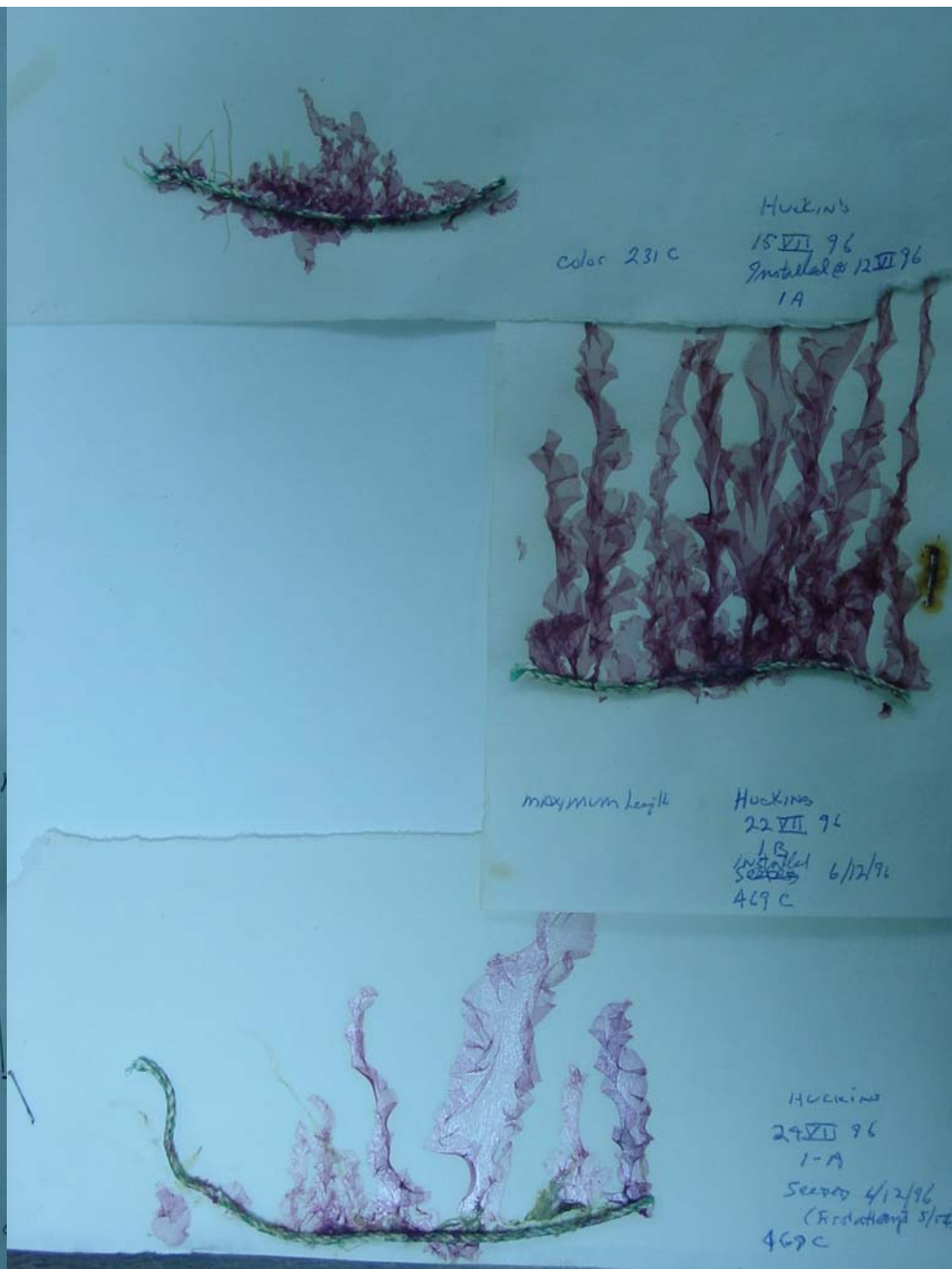
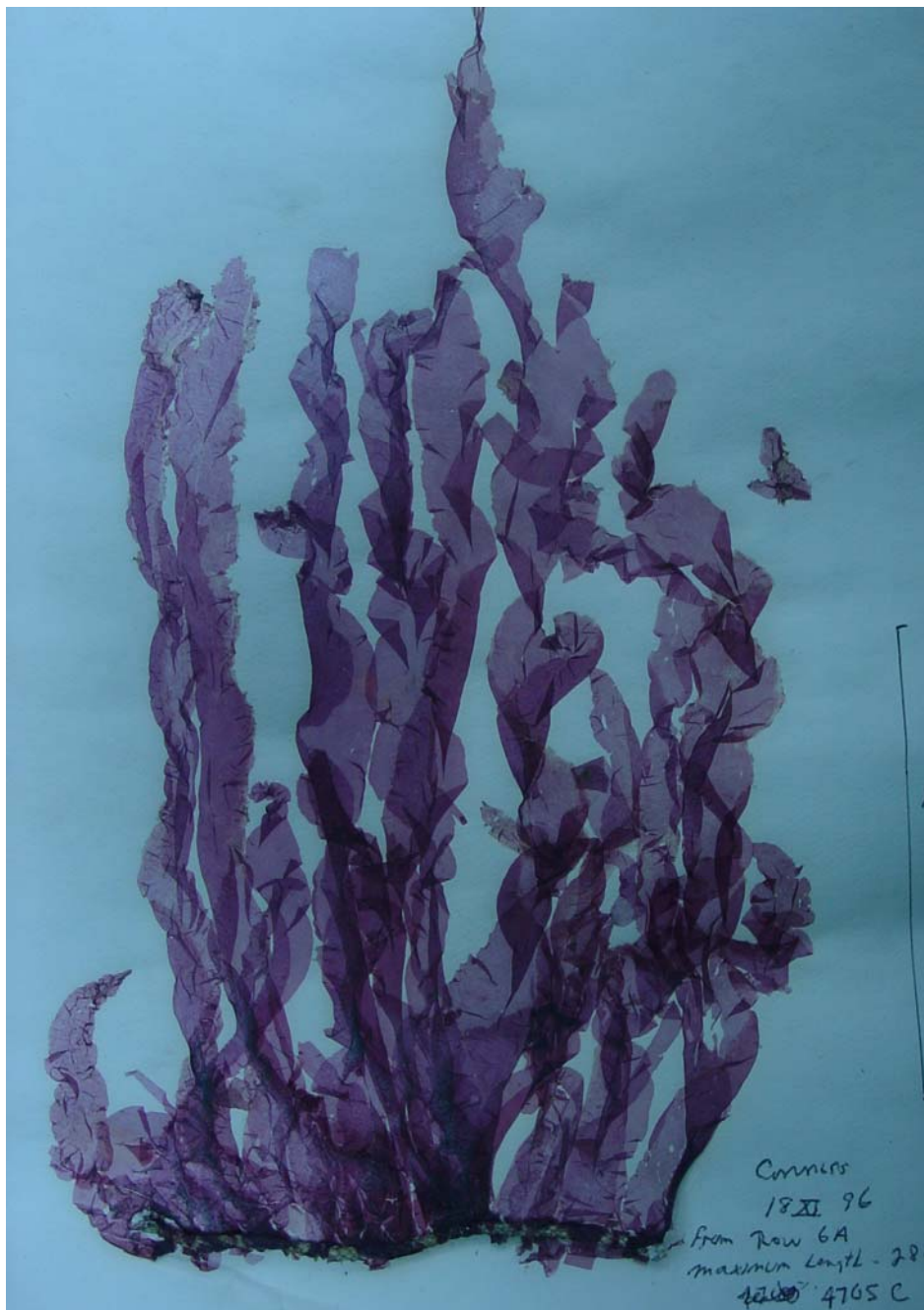
➤ *MEASURE AND
MONITOR
PHOTOSYNTHESIS*

➤ *MONITOR ALGAL
SPECIES BIOMASS
ON CLAM FLATS*

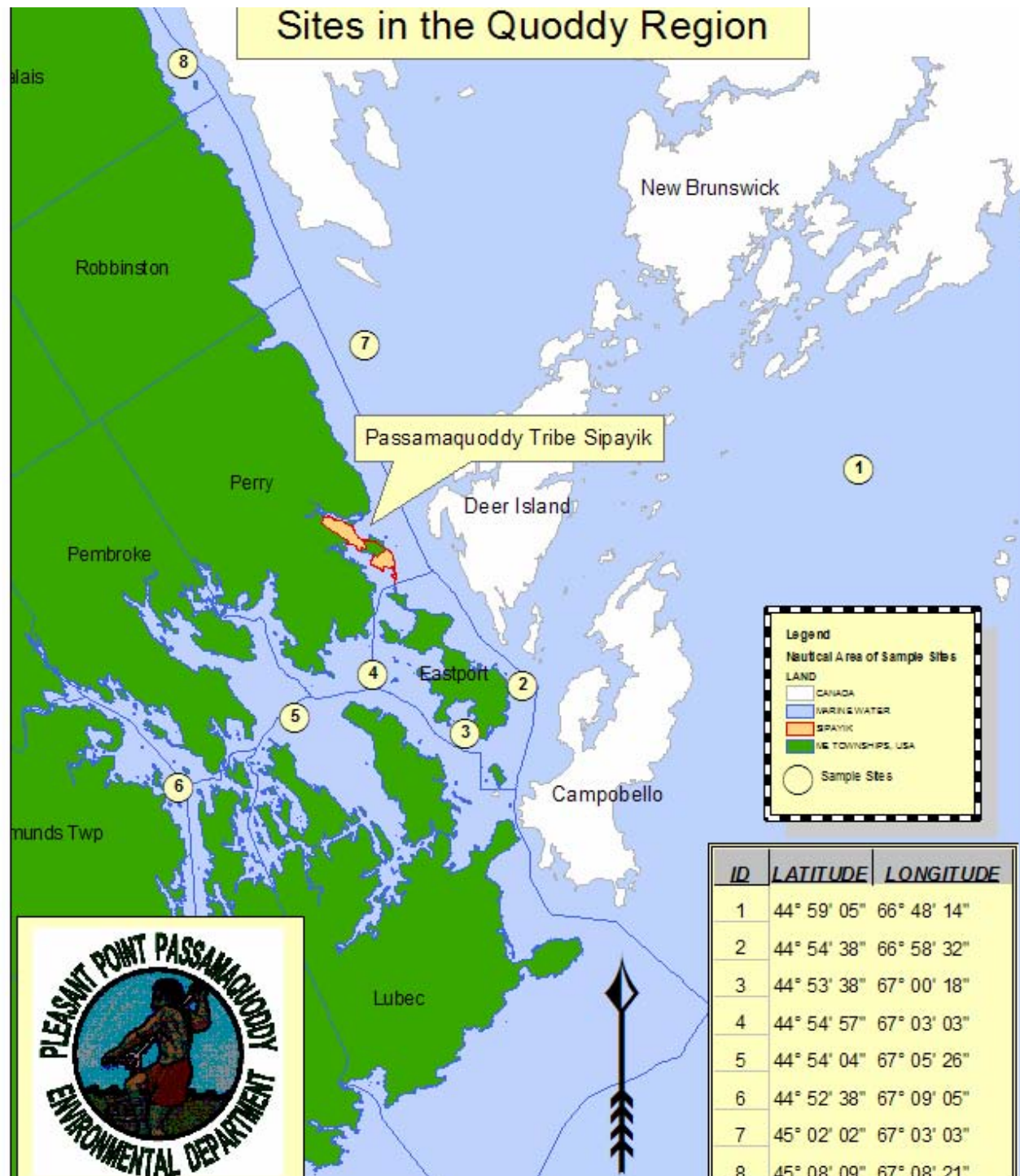


QUODDY REGION

GULF OF MAINE



Sites in the Quoddy Region





MAJOR IMPACTS

AQUACULTURE



AQUACULTURE LEASES IN COBSCOOK BAY



NON-POINT SOURCE



INDUSTRIAL



SEWAGE TREATMENT





➤ *SUFFOCATING GREEN
SLIME*

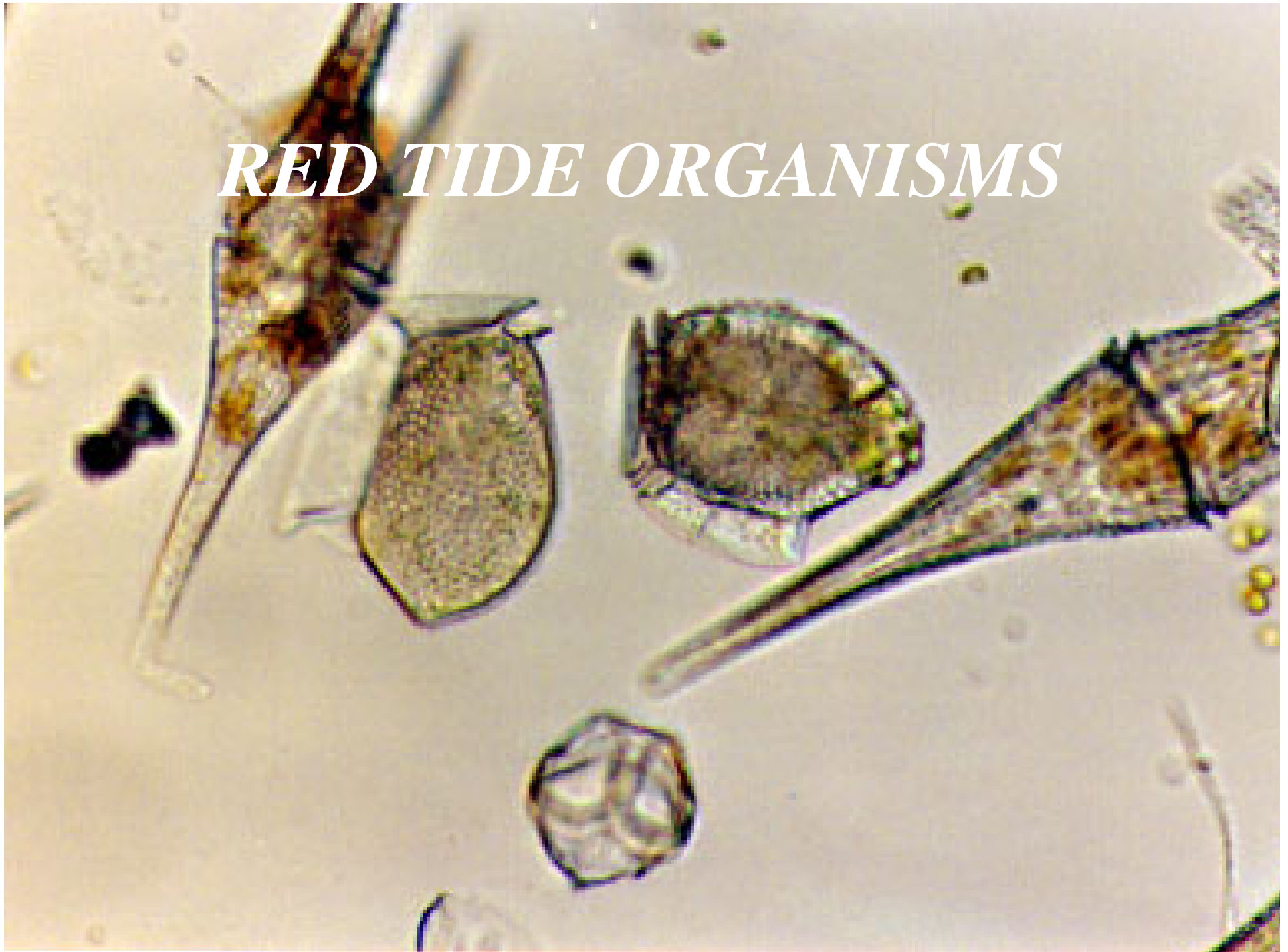
➤ *INCREASED RED TIDES*

➤ *ALTERED ECOSYSTEMS*

➤ *UNKNOWN CHEMICAL
POLLUTION (SLICE)*

➤ *EUTROPHICATION*

RED TIDE ORGANISMS





HOW TO MEASURE PRIMARY PRODUCTION

➤ LIGHT-DARK BOTTLES

➤ THREE PAIRS, SURFACE, 3 METERS, BOTTOM

➤ AMBIENT AND INTERNAL O₂

A person wearing a dark blue jacket and glasses is kneeling on the deck of a white boat. They are handling a black cable connected to a white cylindrical device. To their right is a green bucket with a camouflage pattern. In the foreground, there is a black electronic meter with a digital display, a coiled black cable, and a clear plastic bottle. The background shows the boat's railing and the water.

HOW TO MEASURE PRIMARY PRODUCTION

➤ *CHLOROPHYLL A*

➤ *YSI 6000 METER*

TEMPERATURE, SALINITY

A photograph of a rocky shore covered in green slime (algae). The green slime is a dense, textured carpet over the rocks. In the upper left, a small bird is visible. The text "GREEN SLIME" is overlaid in the center.

GREEN SLIME

➤ *<20 SPECIES*

➤ *UP TO 1 KG/M²*

CLAM RESTORATION PROJECT







**COD TAGGING
EPA GPAC GRANT**



THE END

